

STEREO MOC Status Report  
Time Period: 2006:345 - 2006:351

STEREO Ahead (STA) Status:

1. The following Ground System anomalies occurred during this reporting period:

- On day 345, station DSS-25 was unable to communicate with the transmitter leaving no commanding on the Ahead spacecraft. To accommodate the Peak Power Tracker test on Ahead, the Ahead and Behind stations were swapped giving command to Ahead through station DSS-15. This left Ahead with no commanding for approximately 2 hours during this track.
- On day 349 the DSN monitor data was intermittent. Ahead was on station DSS-45 at the time but this was reported for Behind as well. This problem continued through this reporting period. Investigation into the cause of this problem is ongoing.

2. Ahead spacecraft performance continues to be very good with all subsystems performing nominally. The following significant early operations events occurred during this week:

- Ran the Peak Power Tracker test successfully on day 345. This test included a 45 degree offpoint from the Sun and attained an 85 percent battery state of charge.
- On day 346 the Ahead spacecraft went through the fourth perigee followed by the execution of an IMPACT Magnetometer Calibration Roll and HGA slew from 89 degrees to 0 degrees and back to 89 degrees. Also on this day the High Gain Antenna auto-track test was successfully completed.
- On day 347 the first Momentum Dump outside of maneuver was successfully completed. Following this momentum dump, The SECCHI HI door was opened and the first images were obtained from the HI instruments.
- On day 348 the IMPACT covers were opened on the SIT, SEPT-E, and SEPT-NS instruments. All initial readings were as expected on these instruments for their current environment.

- On day 349, the lunar swingby occurred at 2127Z placing the Ahead spacecraft into its final heliocentric orbit with a drift rate of 21.65 deg/year.

STEREO Behind (STB) Status:

1. One Ground System anomaly occurred during this reporting period which is described below:

- On day 345, station DSS-25 was unable to communicate with the transmitter leaving no commanding on the Ahead spacecraft. To accommodate the Peak Power Tracker test on Ahead, the Ahead and Behind stations were swapped giving command to Ahead through station DSS-15. This left Behind on station DSS-25 with no commanding during this track.
- On day 349 the DSN monitor data was intermittent. Behind was on station DSS-34 at the time but this was reported for Ahead as well. This problem continued through this reporting period. Investigation into the cause of this problem is ongoing.

2. Behind spacecraft performance continues to be very good with all subsystems performing nominally. The following significant early operations events occurred during this week:

- On day 346 the Behind spacecraft went through the fourth perigee followed by the execution of an IMPACT Magnetometer Calibration Roll and HGA slew from 89 degrees to 0 degrees and back to 89 degrees. Also on this day the High Gain Antenna auto-track test was successfully completed.
- The SECCHI EUVI, COR-1, and COR-2 instruments opened their covers and took first light images on day 347. The images were well received and the instruments appear to be functioning nominally.
- On day 349 the Behind spacecraft completed its first lunar swingby at 2103Z. The Behind spacecraft will perform a second lunar swingby on Jan 21 to enter its final heliocentric orbit.